



**PATENT**  
Attorney Docket No. **FORS-06614**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: **Dahlberg *et al.*** Group No.: **1636**  
Serial No.: **09/941,095** Examiner: **James S. Ketter**  
Filed: **08/28/01**  
Entitled: **Kits for the Detection of Target Sequences**

## INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

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Alexandria, VA 22313-1450

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Date: February 9, 2007

By: \_\_\_\_\_

  
Mary Ellen Waite


Sir or Madam:

Enclosed please find an Information Disclosure Statement and Form PTO-1449, in the above-identified application, for filing in the U.S. Patent Office.

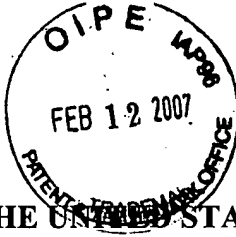
Applicants believe no fee is required. The citations listed were cited in the parent case U.S. Serial No. 08/254,359 filed 06/06/94, which issued as U.S. Patent No. 5,614,402 on 03/25/97.

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1290. An originally executed duplicate of this transmittal is enclosed for this purpose.

Dated: February 9, 2007

  
Mary Ann Brow  
Registration No. 42,363

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San Francisco, California 94105  
608/218-6900



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Group No.: 1636

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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

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By: February 9, 2007

By: 

Mary Ellen Waite

Sir or Madam:

The citations listed below may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application. The citations listed below were cited in the parent case U.S. Serial No. 08/254,359 filed 06/06/94, which issued as U.S. Patent No. 5,614,402 on 03/25/97.

- U.S. Patent No. 5,210,015 issued to Gelfand *et al.*
- PCT Publication WO 92/02638
- R.B. Kelley, *et al.*, "Excision of Thymine Dimers and Other Mismatched Sequences by DNA Polymerase of *Escherichia coli*," *Nature* 244:495 (1969)
- A. Kornberg *et al.*, "Enzymatic Synthesis of Deoxyribonucleic Acid, XVL Oligonucleotides as Templates and the Mechanism of Their Replication," *Biochemistry* 51:315 (1961)

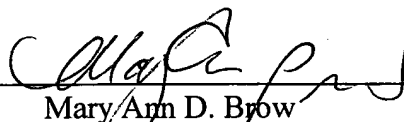
- A. Kornberg, "DNA Polymerases - A Perspective," The Enzymes, Vol. XIV:3
- I.R. Lehman, "DNA Polymerase I of *Escherichia coli*," The Enzymes, Vol. XIV:15
- P. Lopez *et al.*, "Characterization of the polA Gene of *Streptococcus pneumoniae* and Comparison of the DNA Polymerase I It Encodes to Homologous Enzymes from *Escherichia coli* and Phage T7," J. Biol. Chem. 264:4255 (1989)
- H.K. Schachman, *et al.*, "Enzymatic Synthesis of Deoxyribonucleic Acid," J. Biol. Chem. 235:3242 (1960)
- R.C. Lundquist, *et al.*, "Transient Generation of Displaced Single-Stranded DNA During Nick Translation," Cell 31:53 (1982)
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- Perkin Elmer Cetus, Product Analysis: "AmpliTaq DNA Polymerase"
- Promega, Product Analysis: "Taq DNA Polymerase", Certificate of Analysis
- M.J. Longley *et al.*, "Characterization of the 5' to 3' Exonuclease Associated with *Thermus aquaticus* DNA Polymerase," Nucl. Acids Res. 18:7317 (1990)
- Y. Li, *et al.*, "Targeted Cleavage of mRNA *in vitro* by RNase P from *Escherichia coli*," Proc. Natl. Acad. Sci. USA 89:3185 (1992)
- A.J. Podhajski *et al.*, "Conversion of the *FokI* Endonuclease to a Universal Restriction Enzyme: Cleavage of Phage M13mp7 DNA at Predetermined Sites," Gene 40:175 (1985)
- R.H. Symons, "Small Catalytic RNAs," Annu. Rev. Biochem. 61:641 (1992)
- D.M.J. Lilley, *et al.*, "Cruciform-Resolvase Interactions in Supercoiled DNA," Cell 36:413 (1984)
- S.A. Chow, *et al.*, "Reversal of Integration and DNA Splicing Mediated by Integrase of Human Immunodeficiency Virus," Science 255:723 (1992)
- F.C. Lawyer *et al.*, "High-level Expression, Purification, and Enzymatic Characterization of Full-length *Thermus aquaticus* DNA Polymerase and a

Truncated Form Deficient in 5' to 3' Exonuclease Activity," PCR Meth. and Appl. 2:275 (1993)

- D.R. Duckett *et al.*, "The Structure of DNA Junctions and their Interaction with Enzymes," Eur. J. Biochem. 207:285 (1992)

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: February 9, 2007



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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet	1	of	3
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**Complete if Known**

Application Number	09/941,095
Filing Date	08/28/01
First Named Inventor	Dahlberg et al.
Art Unit	1636
Examiner Name	James S. Ketter
Attorney Docket Number	FORS-06614

## U. S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	2	WO 92/02638	02/20/1992	Gelfand et al.	entire document	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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		<b>Filing Date</b>	08/28/01
		<b>First Named Inventor</b>	Dahlberg et al.
		<b>Art Unit</b>	1636
		<b>Examiner Name</b>	James S. Ketter
<b>Sheet</b>	2	<b>of</b>	3
		<b>Attorney Docket Number</b>	FROS-06614

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	3	R.B. Kelley, et al., "Excision of Thymine Dimers and Other Mismatched Sequences by DNA Polymerase of Escherichia coli," Nature 244:495 (1969)	
	4	A. Kornberg et al., "Enzymatic Synthesis of Deoxyribonucleic Acid, XVI Oligonucleotides as Templates and the Mechanism of Their Replication," Biochemistry 51:315 (1961)	
	5	A. Kornberg, "DNA Polymerases - A Perspective," The Enzymes, Vol. XIV:3	
	6	I.R. Lehman, "DNA Polymerase I of Escherichia coli," The Enzymes, Vol. XIV:15	
	7	P. Lopez et al., "Characterization of the polA Gene of Streptococcus pneumoniae and Comparison of the DNA Polymerase I It Encodes to Homologous Enzymes from Escherichia coli and Phage T7," J. Biol. Chem. 264:4255 (1989)	
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NON PATENT LITERATURE DOCUMENTS			
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	13	M.J. Longley et al., "Characterization of the 5' to 3' Exonuclease Associated with Thermus aquaticus DNA Polymerase," Nucl. Acids Res. 18:7317 (1990)	
	14	Y. Li, et al., "Targeted Cleavage of mRNA in vitro by RNase P from Escherichia coli," Proc. Natl. Acad. Sci. USA 89:3185 (1992)	
	15	A.J. Podhajska et al., "Conversion of the FokI Endonuclease to a Universal Restriction Enzyme: Cleavage of Phage M13mp7 DNA at Predetermined Sites," Gene 40:175 (1985)	
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